

Search

FILE 'REGISTRY' ENTERED AT 13:05:47 ON 14 AUG 2004

L1 1 SEA ABB=ON PLU=ON SILICON/CN
D
L2 1 SEA ABB=ON PLU=ON CARBON/CN
D
L3 1 SEA ABB=ON PLU=ON GRAPHITE/CN
D
L4 1 SEA ABB=ON PLU=ON SILICON CARBIDE/CN
D

FILE 'CAPLUS' ENTERED AT 13:08:04 ON 14 AUG 2004

L5 6380 SEA ABB=ON PLU=ON (LIQUID? (5A) (L1 OR SILICON))
L6 1218805 SEA ABB=ON PLU=ON (L2 OR L3 OR CARBON OR GRAPHITE?)
L7 671 SEA ABB=ON PLU=ON L5 AND L6
L8 191 SEA ABB=ON PLU=ON L7 AND (COAT? OR IMPREGN? OR INFILT?)
L9 5582 SEA ABB=ON PLU=ON LSI
L10 60 SEA ABB=ON PLU=ON (LIQUID SILICON INFILTR?)
L11 57 SEA ABB=ON PLU=ON L8 AND (L9 OR L10)
L12 1 SEA ABB=ON PLU=ON L11 AND CALIBR?
D ALL
L13 88557 SEA ABB=ON PLU=ON (L4 OR (SILICON CARBIDE?))
L14 286 SEA ABB=ON PLU=ON L7 AND L13
L15 143 SEA ABB=ON PLU=ON L14 AND (COAT? OR IMPREGN? OR INFILT?)
L16 1 SEA ABB=ON PLU=ON L15 AND CALIBR?
D ALL
L17 60 SEA ABB=ON PLU=ON (LIQUID SILICON INFILTR?)
L18 60 FOCUS L17 1-
L19 1 SEA ABB=ON PLU=ON L17 AND CALIBR?
D ALL
L20 0 SEA ABB=ON PLU=ON L8 AND CALIBR
L21 1 SEA ABB=ON PLU=ON L8 AND CALIBR?
D ALL

=>

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 7440-21-3 REGISTRY
 CN Silicon (7CI, 8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN CZ-N Polished wafer
 CN Hexsil
 CN HGH 600
 CN KDB 20
 CN Metasilicon 325A
 CN Polysilicon
 CN SI 1059
 CN Sicomill 4C-P
 CN Sicomill Grade 2
 CN Silgrain Standard
 CN Silicon element
 CN SILSO
 DR 17375-03-0, 72516-01-9, 72516-02-0, 72516-03-1, 71536-23-7, 152284-21-4,
 90337-93-2, 157383-37-4, 160371-18-6
 MF Si
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES,
 DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
 HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
 PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2,
 USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent;
 Preprint; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC
 (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
 PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role
 in record)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
 study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
 (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
 PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
 MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
 (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
 NORL (No role in record)
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 study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
 (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
 PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Si

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

389708 REFERENCES IN FILE CA (1907 TO DATE)
 7123 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 390053 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 7440-44-0 REGISTRY

CN Carbon (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1262R97

CN 207A

CN 207A (carbon)

CN 207E3

CN 20SPD

CN 2C98

CN 3GX

CN 4GCX

CN 4GM

CN 606R97

CN AC 01

CN AC 01 (adsorbent)

CN AC 100

CN AC 100 (adsorbent)

CN AC 40

CN AC 40 (adsorbent)

CN Acticarbon 25K

CN Acticarbon ENO

CN Acticarbon TK

CN Actitex CS 1501

CN Activated carbon

CN AG 2

CN AG 2 (catalyst support)

CN AG 2-4

CN AG 3

CN AG 3 (adsorbent)

CN AG 5

CN AG 5 (adsorbent)

CN AG 95

CN AG 95 (carbon)

CN AG-M

CN AG-M (carbon)

CN AG-OV 1

CN AGN 1

CN AGN 1 (carbon)

CN AGN 2

CN AGN 2 (carbon)

CN AGN 3

CN AGS 3

CN AGS 4

CN AGS 4 (adsorbent)

CN AK

CN AK (adsorbent)

CN Amoco PX 21

CN Anthrasorb

CN APB 10C

CN AR 2

CN AR 2 (carbon)

CN AR 3

CN AR 3 (carbon)

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

DR 12789-22-9, 130960-03-1, 67167-41-3, 114680-00-1, 37196-29-5, 137322-21-5,
76416-61-0, 82600-58-6, 83138-28-7, 26837-67-2, 39422-04-3, 39434-34-9,
116788-82-0, 208519-32-8, 208728-20-5

MF C

CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS,

BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*,
DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*,
IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS,
NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT,
USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role
in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); CMBI (Combinatorial study); FORM (Formation, nonpreparative);
MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
(Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
NORL (No role in record)
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study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

C

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

280987 REFERENCES IN FILE CA (1907 TO DATE)
11326 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
281249 REFERENCES IN FILE CAPLUS (1907 TO DATE)
18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 7782-42-5 REGISTRY
CN Graphite (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1502ZV
CN 160-50N
CN 220-50N
CN 3203HS
CN 48NF
CN 5099SS3
CN 50LTE-UN
CN 5890PT
CN 5BDN
CN 5BGN
CN 8099H
CN 8099L
CN 8099M
CN 80LTE-U
CN A 1109
CN A 3
CN A 3 (graphite)
CN A 625
CN A 99
CN A 99 (graphite)
CN ACB 100
CN ACB 150
CN Acheson 545
CN ACP
CN ACP (filler)
CN ACP 1000
CN ACP 20NB
CN ACP 3000
CN Aerodag G
CN Aerolor A 05
CN Aerolor A 21
CN AG 1500
CN AGP 60S
CN AGSX
CN Airco 60
CN AM 9060
CN AMI 1226
CN AO 35
CN AOP
CN AP 2
CN AP 2 (graphite)
CN AQ
CN Aqua-Dag
CN Aqua-Dag E
CN AS 1
CN Asbury 3120
CN Asbury 3243
CN Asbury 3264
CN Asbury 3335
CN Asbury 3427

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

DR 164973-65-3, 12751-41-6, 1399-57-1, 159251-18-0, 50814-81-8, 115344-49-5,
37265-44-4, 37265-48-8, 72840-52-9, 155660-93-8, 82696-74-0, 82696-75-1,
82701-02-8, 82701-03-9, 82701-04-0, 82701-05-1, 82701-06-2, 82709-42-0,
83797-07-3, 84739-05-9, 87934-03-0, 156854-02-3, 182761-22-4

MF C

CI MNS, COM

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,

CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

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C

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

89737 REFERENCES IN FILE CA (1907 TO DATE)

1645 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

89813 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 409-21-2 REGISTRY
CN Silicon carbide (SiC) (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 0Y15
CN 100FT
CN 37C150
CN A 20
CN A 20 (carbide)
CN AE 60
CN AE 60 (carbide)
CN Annanox CK
CN B-HP
CN B-HP (carbide)
CN Betarundum
CN Betarundum ST-S
CN Betarundum UF
CN Betarundum Ultrafine
CN BF 12
CN BLOK
CN BSC 059
CN C 1000F
CN C 700D Dark
CN C 800D Dark
CN Carbofrax M
CN Carbogran F 180
CN Carbogran F 36
CN Carbogran F 80
CN Carbogran UF 15
CN Carbogran UF 45
CN Carbon silicide
CN Carborundum
CN Ceraloy 146-1S
CN Cercom SiC-B
CN CGW 3
CN CP 240
CN CP 400
CN Crystar
CN Crystolon 37
CN Crystolon 39
CN Crystolon B
CN Crystolon F 240
CN Crystolon F 320
CN DCR 100F
CN Densic 120
CN Densic 180
CN Densic 220
CN Densic 60
CN Densic 80
CN Densic C 150
CN Densic C 500
CN Densic C 600
CN Densic GC
CN Densic RC 31
CN Silicon carbide

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

DR 12504-67-5, 167972-08-9, 54500-13-9, 63686-94-2, 95918-00-6, 66039-27-8,
37231-85-9, 145583-77-3, 76647-55-7, 148031-02-1, 78544-49-7, 146915-55-1,
154643-50-2, 152024-73-2, 156131-38-3, 92843-12-4, 84149-55-3, 86755-24-0,
160073-05-2, 215780-01-1, 259092-53-0, 288149-69-9

MF C Si

CI COM, MAN
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*,
EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB,
IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*,
TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(*Enter CHEMLIST File for up-to-date regulatory information)
DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent;
Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC
(Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

81005 REFERENCES IN FILE CA (1907 TO DATE)
582 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
81075 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1364 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>

=> file reg

FILE 'REGISTRY' ENTERED AT 18:20:24 ON 12 AUG 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

=> display history full ll-

FILE 'HCAPLUS' ENTERED AT 17:29:57 ON 12 AUG 2004

L1 314 SEA KRENKEL ?/AU
L2 1059 SEA RENZ ?/AU
L3 7 SEA BENITSCH ?/AU
L4 1 SEA L1 AND L2 AND L3

FILE 'REGISTRY' ENTERED AT 17:30:56 ON 12 AUG 2004

L5 1 SEA 7440-21-3
L6 1 SEA 7440-44-0
L7 1 SEA 409-21-2
L8 719 SEA (SI(L)C)/ELS (L) 2/ELC.SUB

FILE 'LCA' ENTERED AT 17:34:18 ON 12 AUG 2004

L9 19434 SEA (DETECT? OR SENSE# OR SENSING# OR ANALY? OR ANAL# OR
ASSAY? OR EST# OR ESTN# OR ESTIMAT? OR QUANTIF? OR
QUANTITAT? OR CALCULAT? OR CALC# OR CALCN# OR MEASUR? OR
MONITOR?)/BI,AB
L10 3688 SEA (DETECTOR? OR COUNTER? OR SENSOR? OR SPECTROG? OR
SPECTROMET? OR PYROMET? OR METER# OR METRE# OR GAUGE? OR
INDICATOR? OR RECORDER? OR ANALYZER? OR SCANNER? OR
COMPARATOR? OR INSPECTOR? OR MONITOR?)/BI,AB
L11 19716 SEA (DETERMIN? OR DETERMN# OR DET# OR DETN# OR EVALUAT?
OR ASCERTAIN? OR RECOGNI? OR IDENTIF? OR INDICAT? OR
DISTINGUISH? OR TEST OR TESTS OR TESTED OR TESTING# OR
DIAGNOS?)/BI,AB
L12 7736 SEA (DEVICE? OR CONTRIVANCE? OR INVENTION? OR APPARAT?
OR APP## OR IMPLEMENT? OR INSTRUMENT? OR TOOL? OR
UTENSIL? OR EQUIP? OR ASSEMBLY OR ASSEMBLIES)/BI,AB

FILE 'HCA' ENTERED AT 17:37:45 ON 12 AUG 2004

L13 318880 SEA (L9 OR L10 OR L11 OR CALIBRAT?) (2A) (L12 OR BODY OR
BODIES)
L14 3287 SEA GONIOMET?
L15 106403 SEA L7 OR L8 OR (SILICON OR SI) (W) CARBIDE# OR SIC
L16 389332 SEA L5
L17 280933 SEA L6

FILE 'REGISTRY' ENTERED AT 17:45:22 ON 12 AUG 2004

L18 E GRAPHITE/CN
1 SEA GRAPHITE/CN

FILE 'HCA' ENTERED AT 17:47:22 ON 12 AUG 2004

L19 189378 SEA L18 OR GRAPHIT?
L20 76734 SEA (L6 OR L18 OR CARBON# OR CARBONACEOUS? OR CARBONIFERO
US? OR C OR GRAPHIT?) (2A) (FIBER? OR FIBR? OR FILIFORM?
OR FILAMENT? OR STRAND? OR RIBBON? OR THREAD? OR
WHISKER?)
L21 18060 SEA (L5 OR SILICON OR SI) (2A) (LIQ# OR LIQUID? OR LIQUEF?
OR FLUID? OR FLUEF? OR MELT? OR MOLTEN? OR FUSE# OR
FUSING# OR FUSION?)
L22 5159 SEA L15 AND (L16 OR L21) AND (L17 OR L19 OR L20)
L23 3 SEA L22 AND L14
L24 61 SEA L22 AND L13
L25 21 SEA L22 AND CALIBRAT?
L26 3 SEA L24 AND L20
L27 7 SEA L24 AND L21
L28 21 SEA L24 AND MEASUR?
L29 126 SEA PROTRACT!R?
L30 1 SEA L24 AND L29
L31 10 SEA L23 OR L26 OR L27 OR L30
L32 36 SEA (L25 OR L28) NOT L31
L33 35 SEA L24 NOT (L31 OR L32)
L34 1 SEA (L32 OR L33) AND 47/SC,SX
L35 11 SEA L31 OR L34
L36 36 SEA L32 NOT L35
L37 34 SEA L33 NOT (L35 OR L36)

=> file hca

FILE 'HCA' ENTERED AT 18:21:34 ON 12 AUG 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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=> d 135 1-11 cbib abs hitstr hitind

L35 ANSWER 1 OF 11 HCA COPYRIGHT 2004 ACS on STN
140:12166 Container for determination of concentrations of silicon and
carbon in molten pig iron from electromotive force and temperature.
Yauchie, Ichiro; Kikuchi, Hirokichi; Mihara, Masamune (Nippon
Therumotech K. K., Japan). Jpn. Kokai Tokkyo Koho JP 2003342625 A2
20031203, 10 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
2002-146546 20020521.
AB The container is assembled with a heat-resistant container main body

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:157848 CAPLUS
 DN 132:211623
 ED Entered STN: 09 Mar 2000
 TI Procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightweight structures such as measuring and clamping plates, guide rails, benches, and tables, especially for calibration, measuring, clamping, and machining
 IN Goedtke, Peter; Kroedel, Matthias; Papenburg, Ulrich
 PA ECM Ingenieur-Unternehmen fuer Energie- und Umwelttechnik G.m.b.h., Germany; Industrieanlagen-Betriebsgesellschaft m.b.H.
 SO Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 IC ICM C04B035-80
 CC 57-8 (Ceramics)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19837768	A1	20000309	DE 1998-19837768	19980820 <--
	EP 987096	A2	20000322	EP 1999-116410	19990820
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	DE 1998-19837768				19980820

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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DE 19837768	ICM	C04B035-80
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AB Fiber-reinforced ceramics (C/SiC) or fiber-reinforced carbon (C/C) are used as the building materials; these materials are bonded to each other using adhesives or mech. connectors and then thermally bonded using the liquid silicon technique to form a monolithic structure of great mech. strength and rigidity.

ST fiber reinforced ceramics rigid lightwt structure; carbon fiber reinforced rigid lightwt structure

IT Machining
 (holding and clamping structures; procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT Holders
 Jigs
 Soot
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT Phenolic resins, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT Carbon fibers, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT 7782-42-5, Graphite, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

IT 409-21-2, Silicon carbide (SiC), uses 7440-21-3, Silicon, uses 7440-44-0, Carbon, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (procedure for the use of fiber-reinforced ceramics in the manufacture of rigid lightwt. structures)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anon; GB 1126930
- (2) Anon; GB 1167898
- (3) Anon; DE 19636223 A1 CAPLUS
- (4) Anon; US 2988959
- (5) Anon; DE 3018785 A1
- (6) Anon; US 3644022
- (7) Anon; EP 735387 A1 CAPLUS

RN 7782-42-5

RN 409-21-2

RN 7440-21-3

RN 7440-44-0

L4 ANSWER 2 OF 2 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN

AN 2000-206988 [19] WPIX

DNC C2000-064051

TI Rigid lightweight monolithic structure, especially for measuring, clamping and machining applications, comprises ceramic-bonded carbon fiber-reinforced silicon carbide or carbon plate and support framework parts.

DC L02 P73 P81

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CYC 25

PI DE 19837768 A1 20000309 (200019)* 8 C04B035-80 <--

EP 987096 A2 20000322 (200019) GE B32B003-12

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI

ADT DE 19837768 A1 DE 1998-1037768 19980820; EP 987096 A2 EP 1999-116410
19990820

PRAI DE 1998-19837768 19980820

IC ICM B32B003-12; C04B035-80

ICS B32B018-00; C04B038-00; G02B005-08

AB DE 19837768 A UPAB: 20000419

NOVELTY - A lightweight monolithic structure, comprises front and back plates (1, 2) and a support framework (3) of carbon fiber-reinforced silicon carbide or carbon (C/SiC or C/C) ceramic bonded or mechanically joined together.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for production of the above lightweight structure, in which the support framework (3) is adhesive bonded between the front plate (1) and back plate (2) using a synthetic resin and the assembly is infiltrated with molten silicon which reacts with part of the carbon to form silicon carbide and produce a rigid permanently bonded monolithic structure.

USE - As a lightweight monolithic structure especially for measuring, clamping and machining applications, e.g. as a lightweight mirror.

ADVANTAGE - The structure has a sandwich construction of high rigidity and strength even under transverse loads, is simple and inexpensive to produce and is made only of homogeneous materials having the same physical properties.

DESCRIPTION OF DRAWING(S) - The figure shows a vertical cross-sectional view of a rigid lightweight structure.

front plate 1

back plate 2

support structure 3

Dwg.1/6

FS CPI GMPI

FA AB; GI

MC CPI: L02-H02A; L02-H04; L02-J02B

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